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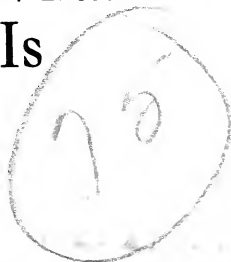
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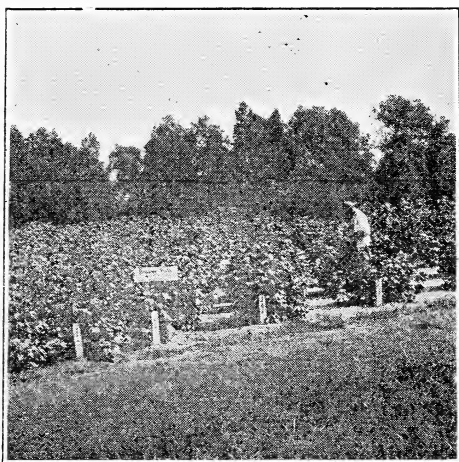
# Delfos Cotton and What It Is



Stoneville Pedigreed  
Seed Company  
Stoneville, Mississippi



# Delfos Cotton and What It Is



Plant breeder at work.

Stoneville Pedigreed  
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# DELLOS COTTON

## WHAT IT IS

Dellos cotton is a new variety originated at the Mississippi Delta Experiment Station by Dr. H. B. Brown, formerly plant breeder for the Mississippi Experiment Station. A great deal of interest is being taken in this new cotton, especially by cotton growers on alluvial lands and in long staple upland districts.

## THE NAME

The name "Dellos" was taken from the words "Delta Foster." This name was used because the variety was bred from Foster cotton and the work was done in the "Delta." This cotton is not related to Delta-type Webber in any way. Some have thought it to be a cross with Webber on account of the name. Dellos is a selection from Foster-120.

## HISTORY

The pedigree of Dellos cotton runs back to 1904, the date Prof. Saunders of the United States Department of Agriculture made a cross between Sunflower and Triumph cotton. Foster cotton, a variety put out by the United States Department of Agriculture, came from this cross. Selections made from a field of Foster at the Delta Experiment Station by E. C. Ewing in 1911 resulted in the production of Foster-120, a strain grown rather extensively in the Delta for a few years.

In 1916, H. B. Brown, at that time with the Mississippi Experiment Station but now head plant breeder for Stoneville Pedigreed Seed Company, made a large number of selections from a field of Foster-120. These selections were tested in various tests for three years. Two of them were found to possess much merit and were increased and distributed to growers. They were, at first, designated as Foster 6102 and Foster-631 but later, or in 1921, the name Dellos was given to them to avoid confusion with the old Department of Agriculture Foster and Foster-120 from which they differed by certain well marked characteristics. In the mind of many planters Foster cotton was all Foster cotton and no attention was paid to strain numbers.

## DELLOS-6102

### DESCRIPTION OF VARIETY

Dellos-6102 has low, spreading, open plants, with comparatively slender main stem and branches; (See Fig. 1) the fruit branches are long and numerous; one to four vegetative branches are found on the plant if wide spaced; leaves are small; bolls are narrowly ovate, short pointed, 4 and 5 locked, open well, pick well, and run 70 to 80 to the pound of seed cotton; lint percentage 31 to 32; lint length  $1\frac{1}{8}$  to  $1\frac{3}{16}$ . Dellos-6102 is very early and very prolific. Bloom counts made by the Mississippi Experiment Station for a period of four years showed a higher rate of blooming for this than for any other variety (See Miss. Exp. Sta. Bulls. 187 and 205 and other publications).

The blooming record for a 125 foot row of each of the prominent varieties in the Seed Farm Variety Test in 1923 ran as follows:

|                          |             |
|--------------------------|-------------|
| Salsbury .....           | 804 blooms  |
| Express-432 .....        | 678 blooms  |
| Watson's Staple .....    | 565 blooms  |
| Express-350 .....        | 898 blooms  |
| Lightning Express-1..... | 953 blooms  |
| Lightning Express-2..... | 835 blooms  |
| Burdette Express.....    | 905 blooms  |
| Walcott's Express.....   | 734 blooms  |
| Foster-120 .....         | 688 blooms  |
| Delfos-6102 .....        | 1054 blooms |
| Delfos-631 .....         | 1058 blooms |
| Webber-249-33 .....      | 752 blooms  |
| Webber-49-6 .....        | 750 blooms  |
| Deltatype Webber .....   | 547 blooms  |
| Hartsville-16 .....      | 459 blooms  |

The plants begin blooming about the first of July. Counts were made on nineteen different days in July. Boll weevils were plentiful during most of the month.

## BOLL WEEVIL RESISTANCE

Delfos-6102 is the best cotton in existence for planting in regions heavily infested with boll weevils. The weevils in a field of cotton will destroy what squares they need, regardless of the variety. If squares are plentiful, a much higher percentage will escape than if there is only a limited number. Consequently a cotton that puts on a large number of forms has the advantage in weevil resistance over one that produces a smaller number.

## DEFECTS

No one variety of cotton is especially adapted to all conditions. Delfos-6102 is not wilt resistant and consequently should not be planted on soil that is badly infected with wilt or blight. It will make a good yield on soils lightly infected. There are but few fields in the Delta that are badly infected.

Delfos-6102 is not a vigorous growing variety and so is not suited for planting on thin lands unless the soil is well fertilized. But does it pay anyone to farm poor land without fertilizing?

## SPECIAL ADAPTATIONS

Delfos-6102 is especially well adapted to planting on new ground or on lands that are so fertile that other varieties of cotton when grown on them become too rank. It does well on medium fertile land and is the best variety for late planting, or for growing under heavy boll weevil infestation.

## PERFORMANCE RECORD OF DELFOS-6102

The record made by Delfos-6102 in the various variety tests conducted by the experiment stations of the State and in other states, has been phenomenal. Table 1 shows the record in brief.



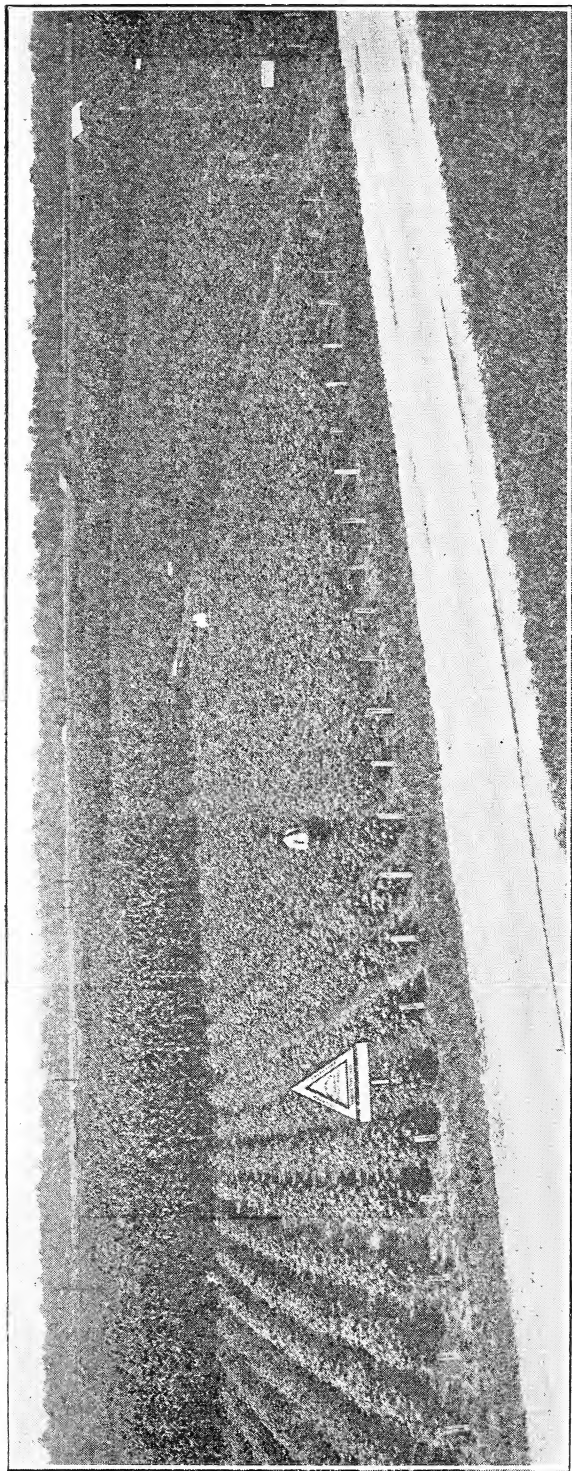


Fig. 2. Trial Grounds and Breeding Plots.

TABLE NO. 1—DELFOF-6102 IN EXPERIMENT STATION TESTS

| Where Tested                              | Wt. Seed Cotton Per Acre | Length Staple | Lint % | Money Value Per Acre | Rank in Money Value | Bolls to a Pound |
|---|--------------------------|---------------|--------|----------------------|---------------------|------------------|
| Var. test Miss. Col. Exp. St., '19.....   | 1124                     | 1-1/8         | 30.8   | 202.44               | 4                   | 69               |
| Var. test Delta Exp. Sta., '19.....       | 1479                     | 1-1/8         | 30.7   | 265.32               | 8                   | ....             |
| Var. test Miss. Col. Exp. Sta., '20.....  | 1085                     | 1-3/16        | 30.7   | 85.99                | 2                   | 80               |
| Var. test Delta Exp. Sta., '20.....       | 1855                     | 1-1/8         | 32.3   | 134.75               | 2                   | ....             |
| Var. test South Miss. Exp. Sta., '20..... | 1060                     | 1-3/16        | 31.1   | 84.96                | 4                   | ....             |
| Var. test Col. Exp. Sta., '21.....        | 1315                     | 1-3/16        | 32.4   | 138.95               | 3                   | ....             |
| Var. test Delta Exp. Sta., '21.....       | 1608                     | 1-3/16        | 31.3   | 194.13               | 1                   | 76               |
| Var. test Raymond Exp. Sta., '21.....     | 1039                     | 1-1/8         | 33.4   | 104.06               | 2                   | ....             |
| Var. test Miss. Col. Exp. Sta., '22.....  | 847                      | 1-3/16        | 31.0   | 82.51                | 11                  | ....             |
| Var. test South Miss. Exp. Sta., '22..... | 918                      | 1-3/16        | 30.0   | 93.31                | 6                   | ....             |
| Var. test Delta Exp. Sta., '22.....       | 1082                     | 1-3/16        | 31.5   | 108.54               | 1                   | ....             |
| Var. test Seed Farm, Stoneville, '22..... | 1720                     | 1-1/8f        | 32.7   | 169.19               | 2                   | 81               |
| Var. test Raymond Exp. Sta., '22.....     | 1440                     | 1-3/16        | 31.6   | 139.76               | 1                   | ....             |
| Var. test Burdette, Ark., '22.....        | 2040                     | .....         | .....  | .....                | 2                   | ....             |
| Var. test Manchester, N. C., '22.....     | .....                    | .....         | .....  | .....                | 1                   | ....             |

Each of the above tests included twenty or more of the best cotton varieties known. In twenty-three different variety tests conducted in Mississippi in 1922, Delfos ranked first in money value in six and second in seven more. (See table 2.) Its average rank for all of the tests was 3.5. No other cotton made a record that approached this. Lightning Express ranked first but twice and was not second in any test. Delfos-6102 out-yields Express and excels it in gin turnout by 3 or 4 per cent.



TABLE 2—RANK OF COTTON VARIETIES IN 23 TESTS IN MISSISSIPPI, 1922, ON BASIS OF MONEY VALUE

| VARIETY           | Number of Tests | Times of 1st Rank | Times of 2nd Rank | Times of 3rd Rank | Times of 4th Rank | Times of 5th Rank | Times of 6th Rank | Times of 7th Rank | Times of 8th Rank | Times of 9th Rank | Times of 10th Rank | Times of 11th Rank | Times of 12th Rank | Times of 13th Rank | Times of 14th Rank | Times of 15th Rank | Times of 16th Rank | Times of 17th Rank | Times of 18th Rank | Times of 19th Rank | Times of 20th Rank | Times of 21st Rank | Times of 22nd Rank | Times of 23rd Rank |
|-------------------|-----------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| Miss. Sta. Trice  | 11              | 1                 | 1                 | 1                 | 2                 | 1                 |                   |                   |                   |                   |                    | 1                  |                    | 1                  | 4                  |                    |                    |                    |                    |                    |                    | 1                  |                    |                    |
| Wann. Cleveland   | 5               |                   |                   |                   |                   |                   |                   |                   | 1                 |                   |                    | 1                  |                    | 1                  | 1                  |                    |                    |                    |                    |                    |                    | 1                  |                    |                    |
| Cleveland-37W     | 4               |                   |                   | 1                 |                   | 1                 |                   |                   |                   |                   |                    |                    |                    |                    |                    |                    |                    | 1                  |                    |                    |                    |                    |                    |                    |
| Acala             | 9               | 1                 | 1                 |                   |                   | 1                 |                   |                   |                   |                   | 1                  | 1                  |                    |                    |                    | 1                  |                    |                    | 1                  |                    |                    | 1                  |                    |                    |
| Long Star-65      | 9               | 1                 | 1                 |                   |                   | 1                 | 1                 | 1                 | 2                 | 1                 | 1                  |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |
| Salsbury          | 16              | 1                 |                   | 2                 |                   |                   | 2                 | 2                 | 1                 | 3                 |                    |                    |                    | 2                  | 1                  |                    |                    | 1                  |                    |                    |                    | 1                  |                    |                    |
| Express-432       | 15              | 1                 |                   |                   | 2                 | 5                 | 1                 |                   | 3                 |                   | 3                  |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |
| Express-350       | 21              |                   | 1                 | 1                 | 1                 | 3                 | 1                 | 2                 | 1                 | 4                 |                    | 1                  |                    | 2                  |                    | 1                  |                    |                    | 1                  | 1                  |                    |                    |                    |                    |
| Express-Lightning | 23              | 2                 |                   | 3                 | 3                 | 4                 | 1                 | 1                 | 3                 | 2                 | 1                  |                    | 1                  |                    |                    | 1                  |                    |                    |                    |                    |                    |                    |                    |                    |
| Express-Walcott   | 6               |                   |                   |                   |                   |                   | 2                 |                   |                   | 2                 | 1                  |                    |                    | 1                  |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |
| Foster-120        | 4               |                   |                   |                   |                   |                   |                   |                   |                   | 1                 |                    | 1                  | 1                  |                    | 1                  |                    |                    |                    |                    |                    |                    |                    |                    |                    |
| Delfos-6102       | 22              | 6                 | 7                 | 2                 |                   |                   | 3                 | 2                 | 1                 |                   |                    | 1                  |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |
| Delfos-631        | 20              | 3                 | 3                 | 3                 | 1                 | 1                 |                   | 4                 |                   | 1                 | 1                  |                    | 1                  |                    |                    |                    | 2                  |                    |                    |                    |                    |                    |                    |                    |
| Webber-49         | 12              |                   | 1                 |                   | 1                 |                   |                   |                   |                   | 1                 | 1                  | 2                  |                    |                    | 1                  | 1                  |                    | 1                  |                    |                    | 1                  | 1                  | 1                  |                    |
| Deltatype Webber  | 20              | 2                 |                   |                   |                   | 2                 | 3                 |                   |                   | 1                 | 1                  | 1                  | 1                  | 2                  | 1                  |                    |                    |                    | 1                  |                    |                    |                    | 3                  |                    |
| Sunpress          | 19              | 2                 | 1                 | 2                 | 1                 |                   | 1                 | 3                 | 2                 |                   |                    |                    |                    |                    |                    | 2                  |                    |                    |                    |                    | 1                  |                    |                    |                    |

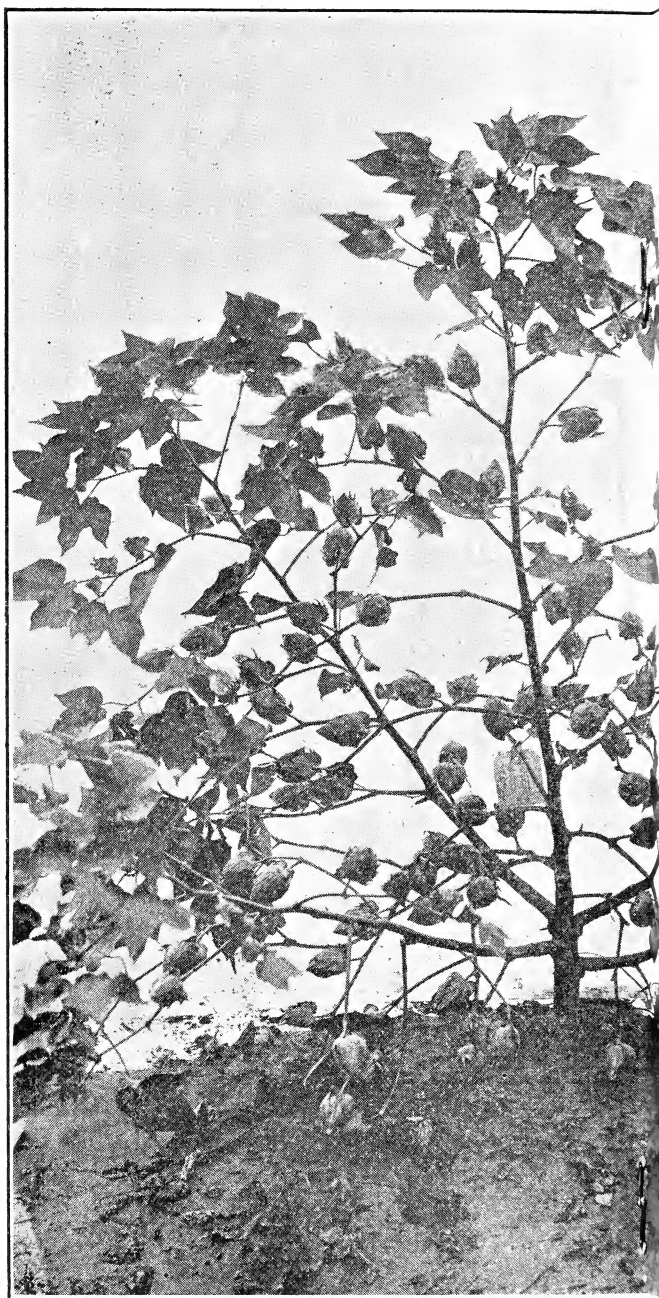


Fig. 1. A well fruited plant of Delfos-6102.



Grown by Stoneville Pedigreed Seed Company

Notice, in the tables below, how Delfos-6102 compares with certain well known varieties in respect to yield of lint, money value, etc. Do you see that it makes more lint per acre than even the short staple varieties?

**TABLE NO. 3—DELFO-6102 COMPARED WITH CLEVELAND WANNAMAKER**

| Variety           | Station                 | Seed<br>Cotton | Lint % | Lint<br>Cotton | Staple<br>Length | Money<br>Value |
|-------------------|-------------------------|----------------|--------|----------------|------------------|----------------|
| Delfos-6102.....  | Delta .....             | 1082.0         | 31.5   | 340.0          | 1-3/16           | 108.54         |
| Cleveland Wan.... | Delta .....             | 892.4          | 37.3   | 332.0          | 3/4              | 103.06         |
| Delfos-6102.....  | College .....           | 847.9          | 31.0   | 262.8          | 1-3/16           | 82.51          |
| Cleveland Wan.... | College .....           | 677.1          | 36.9   | 249.8          | 3/4              | 65.56          |
| Delfos-6102.....  | College (Hill) .....    | 456.0          | 33.0   | 150.5          | 1-1/8            | 43.35          |
| Cleveland Wan.... | College (Hill) .....    | 347.2          | 37.9   | 131.6          | 3/4              | 34.37          |
| Delfos-6102.....  | South Miss. ....        | 918.0          | 30.0   | 275.9          | 1-3/16f          | 93.31          |
| Cleveland Wan.... | South Miss. ....        | 657.0          | 34.5   | 226.9          | 7/8              | 64.66          |
| Delfos-6102.....  | Holly Springs .....     | 878.9          | 30.7   | 269.9          | 1-1/8            | 89.27          |
| Cleveland Wan.... | Holly Springs .....     | 598.9          | 34.5   | 207.0          | 7/8              | 57.97          |
| Delfos-6102.....  | H. S. (Hill) .....      | 738.9          | 30.7   | 226.9          | 1-1/8            | 75.05          |
| Cleveland Wan.... | H. S. (Hill) .....      | 544.4          | 34.5   | 188.2          | 7/8              | 42.71          |
| Delfos-6102.....  | Delta & Pine L'd Co.... | 1413.0         | 29.5   | 417.1          | 1-1/8f           | 140.58         |
| Cleveland Wan.... | Delta & Pine L'd Co.... | 1237.3         | 32.6   | 404.1          | 1                | 116.67         |
| Delfos-6102.....  | Seed Farm .....         | 1591.0         | 31.7   | 504.0          | 1-3/16           | 157.62         |
| Cleveland Wan.... | Seed Farm .....         | 1271.0         | 38.1   | 484.0          | 7/8              | 113.95         |

**TABLE NO. 4—DELFO-6102 COMPARED WITH ACALA**

| Variety          | Station                    | Seed<br>Cotton | Lint % | Lint<br>Length | Money<br>Cotton | Staple<br>Value |
|------------------|----------------------------|----------------|--------|----------------|-----------------|-----------------|
| Delfos-6102..... | Delta Station .....        | 1082.0         | 31.5   | 340.8          | 1-3/16          | 108.54          |
| Acala.....       | Delta Station .....        | 767.2          | 35.6   | 273.1          | 1-1/16          | 78.16           |
| Delfos-6102..... | Delta Station .....        | 1109.0         | 32.3   | 357.0          | 1-3/16          | 113.21          |
| Acala.....       | Delta Station .....        | 884.8          | 35.3   | 312.5          | 1-1/16          | 89.52           |
| Delfos-6102..... | College Station .....      | 849.9          | 31.0   | 262.8          | 1-3/16          | 82.51           |
| Acala.....       | College Station .....      | 901.6          | 36.3   | 327.3          | 1-1/16f         | 92.69           |
| Delfos-6102..... | South Miss. Sta. ....      | 918.0          | 30.0   | 275.9          | 1-3/16f         | 93.31           |
| Acala.....       | South Miss. Sta. ....      | 765.0          | 35.3   | 270.7          | 1-1/16f         | 80.73           |
| Delfos-6102..... | Holly Springs .....        | 878.9          | 30.7   | 269.9          | 1-1/8           | 86.45           |
| Acala.....       | Holly Springs .....        | 850.0          | 34.9   | 293.7          | 1-1/16          | 75.05           |
| Delfos-6102..... | Holly Springs (Hill) ..... | 738.9          | 30.7   | 226.9          | 1-1/8           | 93.71           |
| Acala.....       | Holly Springs (Hill) ..... | 668.9          | 34.9   | 233.9          | 1-1/16          | 68.77           |
| Delfos-6102..... | Delta & Pine L'd Co....    | 1413.0         | 29.5   | 417.1          | 1-1/8f          | 140.58          |
| Acala.....       | Delta & Pine L'd Co....    | 1270.2         | 31.3   | 398.8          | 1-1/16f         | 124.60          |
| Delfos-6102..... | Seed Farm .....            | 1720.0         | 32.7   | 562.0          | 1-1/8f          | 169.19          |
| Acala.....       | Seed Farm .....            | 1389.0         | 35.9   | 499.0          | 1-1/16          | 127.85          |
| Delfos-6102..... | Heathman .....             | 1142.0         | 35.3   | 403.0          | 1-1/8           | 113.66          |
| Acala.....       | Heathman .....             | 1030.0         | 39.1   | 403.0          | 1               | 93.56           |

**TABLE NO. 5—DELFO-6102 COMPARED WITH SALSBU- RY**

| Variety          | Station                    | Seed<br>Cotton | Lint % | Lint<br>Cotton | Staple<br>Length | Money<br>Value |
|------------------|----------------------------|----------------|--------|----------------|------------------|----------------|
| Delfos-6102..... | Delta Station .....        | 1082.0         | 31.5   | 340.8          | 1-3/16           | \$108.54       |
| Salsbury.....    | Delta Station .....        | 743.2          | 32.8   | 243.7          | 1-1/8            | 74.56          |
| Delfos-6102..... | Bolivar Co. ....           | 1462.0         | .....  | 435.1          | .....            | 142.00         |
| Salsbury.....    | Bolivar Co. ....           | 1263.0         | .....  | 411.0          | .....            | 128.60         |
| Delfos-6102..... | College Sta. ....          | 847.9          | 31.0   | 262.8          | 1-3/16           | 82.51          |
| Salsbury.....    | College Sta. ....          | 804.0          | 32.0   | 257.3          | 1-1/8            | 77.75          |
| Delfos-6102..... | South Miss. Sta. ....      | 918.0          | 30.0   | 275.9          | 1-3/16f          | 93.31          |
| Salsbury.....    | South Miss. Sta. ....      | 873.0          | 31.9   | 279.1          | 1-1/8            | 88.83          |
| Delfos-6102..... | Holly Springs .....        | 878.9          | 30.7   | 269.9          | 1-1/8            | 89.27          |
| Salsbury.....    | Holly Springs .....        | 738.9          | 30.1   | 222.6          | 1-1/8            | 70.61          |
| Delfos-6102..... | Holly Springs (Hill) ..... | 728.9          | 30.7   | 226.9          | 1-1/8            | 75.05          |
| Salsbury.....    | Holly Springs (Hill) ..... | 591.1          | 30.1   | 178.1          | 1-1/8            | 56.49          |
| Delfos-6102..... | Delta & Pine L'd Co....    | 1413.0         | 29.5   | 417.1          | 1-1/8f           | 140.58         |
| Salsbury.....    | Delta & Pine L'd Co....    | 1344.4         | 30.8   | 414.1          | 1-1/8            | 133.53         |
| Delfos-6102..... | Seed Farm .....            | 1720.0         | 32.7   | 562.0          | 1-1/8f           | 169.19         |
| Salsbury.....    | Seed Farm .....            | 1452.0         | 32.5   | 472.0          | 1-1/16           | 125.71         |

**TABLE NO. 6—DELFO-6102 COMPARED WITH LIGHTNING EXPRESS**

| Variety            | Station                   | Seed<br>Cotton | Lint % | Lint<br>Cotton | Staple<br>Length | Money<br>Value |
|--------------------|---------------------------|----------------|--------|----------------|------------------|----------------|
| Delfos 6102.....   | Delta Station .....       | 1082.0         | 31.5   | 340.8          | 1-3/16           | \$108.54       |
| Lightning Exp..... | Delta Station .....       | 986.7          | 28.8   | 284.0          | 1-3/16           | 92.17          |
| Delfos 6102.....   | College Station .....     | 847.9          | 31.0   | 262.8          | 1-3/16           | 82.51          |
| Lightning Exp..... | College Station .....     | 911.3          | 29.7   | 270.7          | 1-3/16           | 85.05          |
| Delfos 6102.....   | College Sta. (Hill).....  | 456.0          | 33.0   | 150.5          | 1-1/16f          | 43.35          |
| Lightning Exp..... | College Sta. (Hill).....  | 280.8          | 30.0   | 114.2          | 1-1/8            | 34.93          |
| Delfos 6102.....   | South Miss. Sta.....      | 918.0          | 30.0   | 275.9          | 1-3/16           | 93.31          |
| Lightning Exp..... | South Miss. Sta.....      | 900.0          | 27.8   | 250.8          | 1-3/16           | 85.19          |
| Delfos 6102.....   | Holly Springs .....       | 878.9          | 30.7   | 269.9          | 1-1/8            | 80.20          |
| Lightning Exp..... | Holly Springs .....       | 894.4          | 28.0   | 250.9          | 1-1/8            | 83.48          |
| Delfos 6102.....   | Holly Springs (Hill)..... | 738.9          | 30.7   | 226.9          | 1-1/8            | 75.05          |
| Lightning Exp..... | Holly Springs (Hill)..... | 746.6          | 28.0   | 209.4          | 1-1/8            | 69.68          |
| Delfos 6102.....   | Delta Pine L'd Co.....    | 1413.0         | 29.5   | 417.1          | 1-1/8f           | 140.58         |
| Lightning Exp..... | Delta Pine L'd Co.....    | 1387.3         | 27.3   | 379.9          | 1-3/16           | 134.59         |
| Delfos 6102.....   | Seed Farm .....           | 1720.0         | 32.7   | 562.0          | 1-1/8f           | 169.19         |
| Lightning Exp..... | Seed Farm .....           | 1327.0         | 27.5   | 386.0          | 1-3/16           | 122.62         |
| Delfos 6102.....   | Bolivar County .....      | 1343.1         | .....  | 423.4          | .....            | 138.61         |
| Lightning Exp..... | Bolivar County .....      | 1265.8         | .....  | 362.0          | .....            | 117.33         |

**TABLE NO. 7—DELFO-6102 COMPARED WITH DELTA TYPE WEBBER**

| Variety               | Station                 | Seed<br>Cotton | Lint % | Lint<br>Cotton | Staple<br>Length | Money<br>Value |
|-----------------------|-------------------------|----------------|--------|----------------|------------------|----------------|
| Delfos-6102.....      | Delta Station .....     | 1082.0         | 31.5   | 340.8          | 1-3/16           | \$108.54       |
| Deltatype Webber..... | Delta Station .....     | 678.9          | 30.5   | 207.0          | 1-1/4            | 68.42          |
| Delfos-6102.....      | Bolivar Co. (S).....    | 1478.0         | .....  | 456.4          | 1-3/16           | 180.21         |
| Deltatype Webber..... | Bolivar Co. ....        | 1226.0         | .....  | 329.0          | 1-1/4            | 103.04         |
| Delfos-6102.....      | College Station .....   | 847.9          | 31.0   | 262.8          | 1-3/16           | 82.51          |
| Deltatype Webber..... | College Station .....   | 500.2          | 28.5   | 142.6          | 1-1/4            | 46.90          |
| Delfos-6102.....      | South Miss. Sta.....    | 918.0          | 30.0   | 275.9          | 1-3/16f          | 93.31          |
| Deltatype Webber..... | South Miss. Sta.....    | 675.0          | 30.4   | 205.4          | 1-1/4            | 70.30          |
| Delfos-6102.....      | Holly Springs .....     | 878.9          | 30.7   | 269.9          | 1-1/8            | 69.27          |
| Deltatype Webber..... | Holly Springs .....     | 404.4          | 27.7   | 112.9          | 1-1/4            | 38.50          |
| Delfos-6102.....      | Holly Spgs. (Hill)..... | 738.9          | 30.7   | 226.9          | 1-1/8            | 75.05          |
| Deltatype Webber..... | Holly Spgs. (Hill)..... | 482.2          | 27.7   | 132.6          | 1-1/4            | 45.66          |
| Delfos-6102.....      | Delta Pine L'd Co.....  | 1413.0         | 29.5   | 417.1          | 1-1/8f           | 140.58         |
| Deltatype Webber..... | Delta Pine L'd Co.....  | 1084.6         | 26.4   | 286.1          | 1-1/4f           | 110.48         |
| Delfos-6102.....      | Seed Farm .....         | 1720.0         | 32.7   | 562.0          | 1-1/8f           | 169.19         |
| Deltatype Webber..... | Seed Farm .....         | 1257.0         | 30.3   | 381.0          | 1-3/16           | 120.11         |
| Delfos-6102.....      | Heathman .....          | 1142.0         | 35.3   | 403.0          | 1-1/8            | 113.66         |
| Deltatype Webber..... | Heathman .....          | 888.0          | 30.5   | 271.0          | 1-3/16           | 85.32          |
| Delfos-6102.....      | Dunleith .....          | 1553.0         | 33.9   | 526.0          | 1-1/8f           | 157.36         |
| Deltatype Webber..... | Dunleith .....          | 1137.0         | 30.8   | 350.0          | 1-3/16f          | 115.27         |

You may also want to know how Delfos-6102 compares with other varieties when grown on a plantation scale. Table 8 gives figures on actual yield on plantations in 1922.

**TABLE NO. 8—FIELD PERFORMANCE OF DELFO-6102 AND 631 IN 1922**

**TRAIL LAKE PLANTATION**

| Variety                 | No.<br>Acres | No.<br>Bales | Lint Per<br>Acre | Lint<br>% | Staple*<br>Length |
|-------------------------|--------------|--------------|------------------|-----------|-------------------|
| Delfos-6102 .....       | 290          | 162          | 388              | .....     | 6.8               |
| Delta Type Webber.....  | 500          | 164          | 198              | .....     | 8.4               |
| Express-350 .....       | 1550         | 585          | 227              | .....     | 6.9               |
| Lightning Express ..... | 38           | 24           | 282              | .....     | 7.3               |

**DUNLEITH PLANTATION**

| Variety           | No.<br>Acres | No.<br>Bales | Lint Per<br>Acre | Lint<br>% | Staple*<br>Length |
|-------------------|--------------|--------------|------------------|-----------|-------------------|
| Foster-120 .....  | 1387         | 669          | 243              | .....     | 6.4               |
| Delfos-6102 ..... | 168          | 121          | 377              | 32.0      | 7.2               |
| Express-350 ..... | 250          | 143          | 366              | 27.0      | 7.6               |
| Delfos-631 .....  | 145          | 111          | 411              | 31.0      | 7.7               |

\*These figures are the average of the whole number of bales from the inbound classification of the Staple Cotton Association classers at Greenwood, Miss. The out-bound classification was about 1/32 of an inch longer.

Key to numbers: 6—1-1/8 inches; 7—1-1/8 inch full; 8—1-3/16 inches.

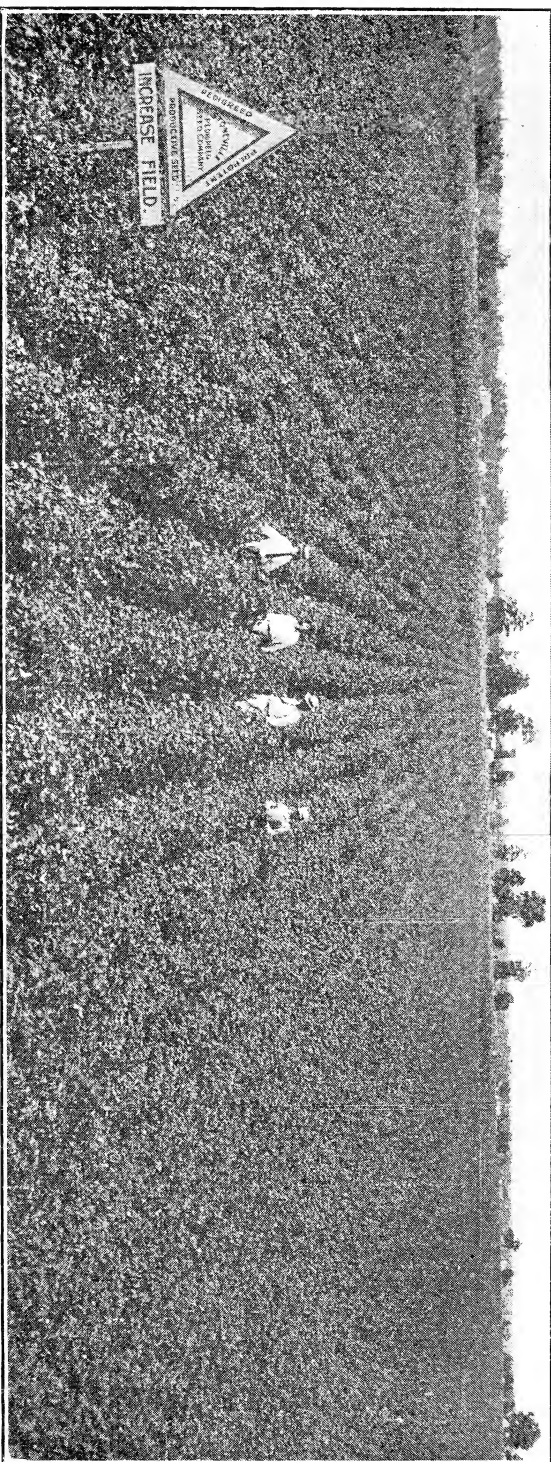


Fig. 3. An increase field of Deltos-6102 at Heathman, Miss. Note the uniformity of the plants.



## DESCRIPTION

Delfos-631 has erect plants of medium height, and is rather open. Where the plants are not crowded there are one or more vegetative branches; leaves are small to medium size; bolls are rather long, ovate, long pointed, running 64 to 70 to a pound; bolls open well, are fairly stormproof and pick well; staple  $1\frac{3}{16}$  to  $1\frac{1}{4}$  inches in length; lint percentage 30 to 31.5.

Delfos-631 resembles Delfos-6102 in general appearance but is some taller and a little more vigorous in its growth. See Fig. 4 on pages 8 and 9. It is consequently somewhat better for planting on poor land but does well on rich soil. It is very early and prolific for a cotton with a large boll. The staple length is better than that of Delfos 6102 and Express, and it also excels most strains of Express in lint percentage by about three per cent.

The productiveness of Delfos-631 is well shown by the following table:

## PERFORMANCE RECORD OF DELFOS-631

| Variety                    | Test | Seed Cotton<br>Per Acre | Staple Length | Lint % | Money Value<br>Per Acre | Rank in<br>Money Value<br>Bolls to<br>the Pound |
|----------------------------|------|-------------------------|---------------|--------|-------------------------|---|
| Miss. Col. Exp. Sta., '19  |      | 1033                    | 1-3/16        | 30.4   | 215.50                  | 1   |
| Delta Exp. Sta., '19       |      | 1280                    | 1-3/16        | 30.0   | 263.96                  | 9   |
| Miss. Col. Exp. Sta., '20  |      | 995                     | 1-5/16        | 30.5   | 107.12                  | 1   |
| Delta Exp. Sta., '20       |      | 1897                    | 1-3/16        | 32.0   | 158.87                  | 1   |
| Miss. Col. Sta., '21       |      | 1398                    | 1-3/16f       | 31.7   | 136.03                  | 7   |
| Delta Exp. Sta., '21       |      | 1527                    | 1-1/4         | 30.9   | 186.32                  | 2   |
| Raymond Exp. Sta., '21     |      | 1019                    | 1-1/4         | 33.5   | 102.17                  | 2   |
| College Exp. Sta., '22     |      | 756                     | 1-1/4         | 30.5   | 74.95                   | 16  |
| Delta Exp. Sta., '22       |      | 1020                    | 1-1/4         | 31.4   | 103.71                  | 5   |
| South Miss. Exp. Sta., '22 |      | 1008                    | 1-1/4         | 30.6   | 105.46                  | 4   |
| Raymond Exp. Sta., '22     |      | 1185                    | 1-1/4         | 31.5   | 116.67                  | 12  |
| Seed Farm, Stoneville, '22 |      | 1719                    | 1-3/16        | 31.5   | 169.39                  | 1   |

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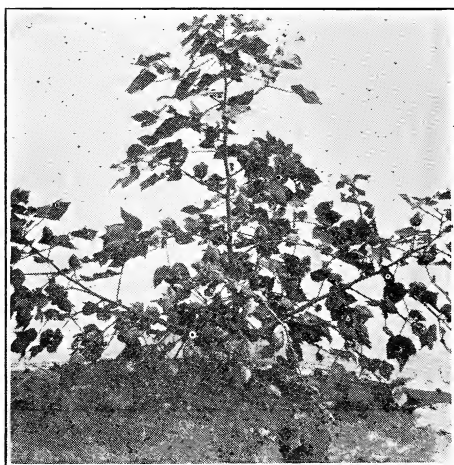


Fig. 4. A typical plant of Delfos-631.

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Stoneville, Mississippi







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